

Amendments To The Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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1. (currently amended) A system for treating skin, comprising:

(a) a surface radiation assembly configured to irradiate a region on the surface of the skin with electromagnetic radiation;

BF (b) a surface electrode assembly comprising at least a first pair of a first electrode and a second electrode, the first and second electrodes being configured to be applied to the surface of the skin and to apply a voltage to the skin surface;

LC (c) an electrical meter configured to measure an electrical response of the skin to a voltage applied across the electrodes; *and*

(d) a processor configured to adjust value of a parameter of the electromagnetic radiation based upon a measured electrical response to a voltage applied across the first and second electrodes.

2.(original) The system according to claim 1, wherein the value of the parameter is adjusted in order to control skin temperature.

3-4. (canceled)

5.(original) The system according to claim 1, wherein the parameter is selected from the group comprising:

- B2  
cont.
1. irradiation intensity;
  2. irradiation pulse duration
  3. irradiation pulse frequency.

6. (currently amended) The system of Claim 41 wherein the voltage applied to the skin is in the radio frequency.

7. (currently amended) The system according to Claim 41 wherein the first and second electrodes are the source of the radiation.

8.(original) The system according to claim 1 wherein the electrical response of the skin is skin impedance or a skin conductivity.

9. (previously presented) The system according to Claim 8 wherein at least one of the intensity, pulse duration, and pulse frequency of the radiation is decreased by the processor when the skin impedance decreases below a predetermined value.

10. (currently amended) A system for treating skin, comprising:

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Cont. (a) a ~~surface~~source of radiation assembly configured to irradiate a region ~~on the surface of the skin;~~

(b) a ~~surface electrode assembly comprising at least a first pair of a first electrode and a second electrode, the first and second electrodes being configured to be applied to the surface of the skin and to apply a voltage to the skin surface;~~

(c) an electrical meter configured to measure an electrical response of the skin to a voltage applied across the electrodes, wherein the electrical response of the skin is ~~skin impedance~~impedance or skin conductivity; and

(d) a processor configured to adjust value of a parameter of the radiation based upon a measured electrical response to a voltage applied across the first and second electrodes, ~~and wherein the electrical response of the skin is skin impedance or skin conductivity~~  
wherein the processor is further configured to store in a memory a table assigning value of one or more parameters of

the irradiation to each of one or more non-overlapping  
impedance ranges, and the value of a parameter of the  
radiation is adjusted to a value assigned by the table to an  
impedance measurement.

11. (presently amended) A method for treating skin comprising:

(a) irradiating a region of the skin with electromagnetic  
radiation;

(b) applying a voltage to the skin;

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(c) measuring an electrical response of the skin to the  
applied voltage; and

(d) adjusting a value of a parameter of the  
electromagnetic radiation based upon the measured  
electrical response.

12. (canceled)

13. (currently amended) The method according to claim 1211,  
wherein the value of the parameter is adjusted in order to  
control skin temperature.

Object:  
not further  
amended  
14. (currently amended) The method according to Claim 1211,  
wherein the radiation is electro-magnetic radiation.

15. (currently amended) The method according to Claim 1211  
wherein the source of radiation is a ~~a~~ voltage applied to the  
skin.

16. (currently amended)) The method according to claim ~~12~~11,  
wherein the parameter is selected from the group comprising:

1. irradiation intensity;
2. irradiation pulse duration
3. irradiation pulse frequency.

*B2* 17. (previously presented) The method of Claim 15 wherein the  
voltage applied to the skin is in the radio frequency range.

*2* ~~18~~ 18. (previously presented) The method according to Claim 15  
wherein the first and second electrodes are the source of the  
radiation.

19. (currently amended) The method according to Claim ~~12~~11  
wherein the electrical response of the skin is a skin  
impedance.

20. (previously presented) The method according to Claim 19  
wherein at least one of the intensity, pulse duration, and  
pulse frequency of the radiation is decreased by the processor  
when the skin impedance decreases below a predetermined value.

21. (original) The method according to claim 19 wherein the  
processor is further configured to store in a memory a table

assigning value of one or more parameters of the irradiation to each of one or more non-overlapping impedance ranges, and the value of a parameter of the radiation is adjusted to a value assigned by the table to an impedance measurement.

*B2 cont.*  
22. (original) The method according to claim 19 wherein the processor is further configured to store in a memory a <sup>an impedance</sup>  $\wedge$  threshold, and the value of a parameter of the radiation is adjusted to a predetermined value if the impedance is above a predetermined threshold, and is adjusted to 0 if the impedance is below the threshold.

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